

USOL'TSEVA, A.S., uchitel'nitsa (Moskva)

"Forest treasures" by B.V.Grozlov. Reviewed by A.S.Usol'tseva.
Biol.v shkole no.4:91 J1-Ag '60. (MIRA 13:7)
(Forests and forestry)
(Grozlov, B.V.)

SOKOLOVA, A.V., zasluzhennaya uchitel'nitsa shkoly RSFSR; USOL'TSEVA, A.S.,
uchitel'nitsa (Moskva)

Organizing evening meetings and exhibitions on scientific and
atheistic tops. Biol. v shkole no.2:35-38 Mr-Apr '61. (MIRA 14:3)
(Atheism--Study and teaching)
(Science--Study and teaching)

USOL'TSEVA, A.S., uchitel'nitsa (Moskva)

Use of popular scientific literature in botany classes. Biol. v
shkole no.3:28-31 My-je '61. (MIRA 14:7)

(Botany--Juvenile literature)

VINOGRADOVA, N.V., uchitel'nitsa; USOL'TSEVA, A.S., uchitel'nitsa

"War with an invisible enemy" by A.G. Lebedenko. Reviewed by
N.V. Vinogradova, A.S. Usol'tseva. Biol. v shkole no.5:90-91
3-0 '62. (MIRA 16:2)

1. Shkola No.46 Moskvy (for Vinogradova).
(Pavlovskii, Evgenii Nikanorovich, 1884-)
(Lebedenko, A.G.)

USOL'TSEVA, A.S. (Moskva)

Evening devoted to scientifically based atheistic studies
in connection with the course in human anatomy, physiology,
and hygiene. Biol. v shkole no.1:31-35 Ja-F '63.
(MIRA 16:6)

(Atheism--Study and teaching)

USOL'TSEVA, A.S. (Moskva)

"Chrestomathy of botany." Reviewed by A.S.Usol'tseva. *Biol. v shkole*
no.2:87 Mr-Apr '63. (MIRA 10:4)
(Readers and speakers—Botany)

Anna Sergeevna Usol'tseva, obit. 1963

Biol. v shkole no 3:96

USOL'TSEVA, K.I.

Principal stages in the formation of the relief and the mantle of friable deposits of the Kola Peninsula. Uch.zap. Kursk.gos.ped.inst. (MIRA 12:4)
no.4:174-200 '57.

1. Iz kafedry geografii Kurskogo gosudarstvennogo pedagogicheskogo instituta.

(Kola Peninsula—Physical geography)

USOL'TSEVA, K.I.

Soil cover in the northeastern part of the "40 let Oktiabria"
Collective Farm. Uch. zap. VGPI 27:79-89 '62. (MIRA 16:8)

(Vologda District--Soils)

USOL'TSEVA, K.I. (Vologda)

Snow surveys with seventh grade students. Geog. v shkole
25 no.6:32-35 N-D '62. (MIRA 15:12)
(Snow surveys)
(Climatology--Study and teaching)

USOL'TSEVA, K. I.

"Northern Yakutia; physico-geographical characteristics."
Izv. Vses. geog. ob-va 94 no.6:533-534 N-D '62.
(MIRA 16:1)

(Yakutia--Physical geography)

S/180/62/000/006/002/022
E111/E451

AUTHORS: Tumanov, V.I., Funke, V.F., Belen'kaya, L.I.,
Usol'tseva, L.P. (Moscow)

TITLE: Influence of alloy additions on the surface tension of
metals of the iron group

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh
nauk. Metallurgiya i toplivo, no.6, 1962, 43-48

TEXT: The effect was investigated of alloy additions to nickel
and cobalt on surface tension and weldability of alumina by them;
the alloy additions studied were molybdenum, tungsten, titanium,
copper, tungsten carbide and titanium carbide. The sessile drop
method was used at a vacuum of 10^{-5} mm Hg and temperatures of about
 1500°C (1400°C copper). Over the alloying range studied (0.5 to
20 at.%), a relationship was found between, on the one hand, the
contact angle, surface tension, interfacial tension and work of
adhesion and, on the other, the atomic diameter and thermal
stability of the oxides of the alloy additions. With the carbides
the greatest reduction in the contact angle and increase in the work
of adhesion was obtained when 5% TiC was introduced into cobalt
Card 1/2

Influence of alloy ...

S/180/62/000/006/002/022
E111/E451

(the values then being 62°C and 3600 erg/cm², respectively). X-ray structural investigation was made of the contact zone between the alumina plate (made by sintering 99.4% Al₂O₃ in argon for 5 hours at 1950°C to give a porosity of 0.2%) and the alloy. Spinel formation was found to extend to a considerable depth with cobalt. With nickel, α-Al₂O₃ and NiAl₂O₄ were found on the plate at a point adjacent to the drop and α-Al₂O₃, NiAl₂O₄, TiC, TiO₂ and NiAl on the plate at the contact zone; NiAl₂O₄, Ni, TiC, TiO₂ and NiAl were found in the molten drop at the contact zone. Thus the interfacial activity of titanium is evidently due to a reaction between the liquid metal and the solid alumina. There are 5 figures and 5 tables.

SUBMITTED: March 16, 1962

Card 2/2

ACCESSION NR: AT4030800

S/0000/63/000/000/0141/0151

AUTHOR: Tumanov, V. I., Funke, V. F., Belen'kaya, L. I. Usol'tseva, L. P.

TITLE: Effect of alloying on surface tension of the iron group metals and the wettability of aluminum oxide

SOURCE: AN UkrSSR. Institut metallokeramiki i spetsial'ny*kh splavov. Poverkhnostny*ye yavleniya v rasplavakh i protsessakh poroshkovoy metallurgii (Surface phenomena in liquid metals and processes in powder metallurgy). Kiev, Izd-vo AN UkrSSR, 1963, 141-151

TOPIC TAGS: cobalt alloy, nickel alloy, liquid phase surface tension, alloy surface tension, aluminum oxide, aluminum oxide wettability, cobalt copper alloy nickel copper alloy

ABSTRACT: The effects of alloying Co and Ni with Cu, Mo, W or Ti (0.5, 1.5 and 20 at. %), as well as carbides of the latter three (5 at. %), on the surface tension of the liquid phases and the wetting of Al_2O_3 were studied on alloy samples ($h = 5-6$ mm, $\phi = 12$ mm)

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ACCESSION NR: AT4030800

and Al_2O_3 substrates ($h = 4$ mm, $\delta = 20$ mm, porosity up to 0.2%). Tests were carried out in a vacuum (5×10^{-5} mm Hg) at about 1500C (1400C for Cu-containing alloys). The contact angle θ was determined experimentally, using the droplet-at-rest method (accuracy 1-2%). Surface tension σ , interphase tension σ_{si} and work of adhesion W_A were calculated. As shown in Fig. 1. of the Enclosure, addition of up to 1.0 at. % alloying elements, especially Cu, lowered θ , but further additions had little effect. Small amounts of alloying elements (0.5-1 at. %), except for Ti, also lowered σ (see Figs. 2 and 3 in the Enclosure). Alloying with 5 at. % tungsten carbide lowered θ and σ slightly in both Ni and Co; molybdenum carbide had no effect on these parameters in Ni and little effect in Co. Only titanium carbide lowered θ significantly in Ni (from 120 to 62°) and Co (from 120 to 90°), while simultaneously increasing the surface tension. X-ray diffraction patterns of the contact areas between the drop and the substrate show that reactions take place between the liquid metal and the substrate, resulting in formation of a transition layer containing CoAl_2O_4 and NiAl_2O_4 with a spinel structure. In the case of Ni alloyed with titanium carbide, the transition zone also contained TiC, TiO_2 and NiAl. The authors demonstrate relationships between θ , σ , σ_{si} and W_A , on

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ACCESSION NR: AT4030800

the one hand, and the atomic diameter and thermal stability of the alloying component oxides, on the other. The lowest Θ (62°) and maximal W_A (3600 ergs/cm²) were found in Co + 5 at.% TiC. "The X-ray structural analysis was carried out by Eng. N. S. Urazaliyev." Orig. art. has: 5 tables and 6 graphs.

ASSOCIATION: Vsesoyuzn*y nauchno-issledovatel'skiy institut tverdy*kh splavov, Moscow
(All-Union Scientific Research Institute for Solid Alloys)

SUBMITTED: 23Nov63

ENCL: 03

SUB CODE: MM

NO REF SOV: 005

OTHER: 006

Card 3/6

ACCESSION NR: AT4030800

ENCLOSURE: 01

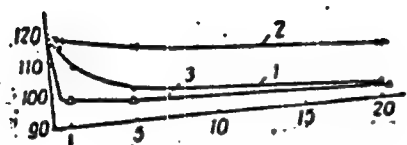


Fig. 1. Contact wetting angle (θ) for Ni, Co and their alloys on an Al_2O_3 substrate, alloyed with W (1), Mo (2) and Cu (3). Ordinate = θ in degrees; abscissa = at. % alloying element.

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ACCESSION NR: AT4030800

ENCLOSURE: 02

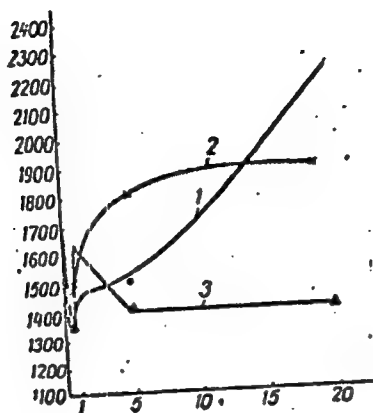


Fig. 2. Surface tension of Ni and its alloys (Al_2O_3 substrate), alloyed with W (1), Mo (2) and Cu (3). Ordinate = γ in ergs/cm²; abscissa = at. % alloying element.

Card 5/6

ACCESSION NR: AT4030800

ENCLOSURE: 03

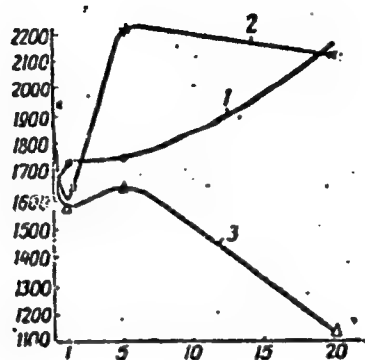


Fig. 3. Surface tension of Co and its alloys (Al_2O_3 substrate), alloyed with W (1), Mo (2), Cu (3), 0.5 at. % Ti (x). Ordinate and abscissa as in Fig. 2.

Card 6/6

BORISOGLEBSKIY, B.N., kand. tekhn. nauk, red.; USOL'TSEVA, M.I.,
red.

[Manufacture of centrifuges in the U.S.S.R.; collection of reports at the united session of the All-Union Scientific Research Institute of Chemical Machinery, the Ukrainian Scientific Research Institute of Chemical Machinery, and of the technical council of the Sumy Machinery Plant] TSentrifugostroenie v SSSR; sbornik dokladov na ob"edinennoi sessii nauchno-tekhnicheskikh sovetov Niikhimasha, Ukrniikhimasha i tekhnicheskogo soveta Ordena Lenina Sumskogo mashinostroitel'nogo zavoda im. M.V.Frunze. Moskva, Otdel nauchno-tekhn. informatsii, 1963. 277 p. (MIRA 17:11)

AID P - 3753

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 17/22

Authors : Lapshin, B. M., V. A. Usol'tseva, and I. I. Zaslavskiy

Title : Change in the potential of the PbO_2 -electrode in the system $\text{H}_2\text{SO}_4 \cdot x\text{SO}_3 - \text{HNO}_3$

Periodical : Zhur. prikl. khim. 28, 9, 1009-1012, 1955

Abstract : The changes of the potential in systems containing various amounts of HNO_3 and of oleum were established and compiled in a table. One table, one diagram, 2 references, 1 Russian (1952).

Institution : Ivanovo Chemical and Technological Institute

Submitted : Ja 3, 1954

USSR/Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physico-chemical Analysis. Phase Transitions, B-8

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 373

Author: Usol'tseva, V. A.

Institution: None *State Med. Inst. Ivanovo*

Title: Chemical Processes in the Systems $\text{HNO}_3\text{-H}_2\text{SO}_4\text{-nSO}_3$ for $n < 1$

Original

Periodical: Zh. prikl. khimii, 1956, Vol 29, No 2, 302-306

Abstract: In order to clarify the question on the interrelationship between the chemical processes, the systems were investigated by a number of methods. Curves are presented for 2 systems: HNO_3 -17.1% fuming sulfuric acid and HNO_3 -28.2% fuming H_2SO_4 . By means of measurements of the specific gravity, viscosity, index of refraction, and the increase in specific gravity, regions of maximum accumulation of the molecules NO_2HSO_3 , $\text{H}_2\text{NO}_3\text{HSO}_3$, H_3OHSO_4 , NO_2HSO_4 , and $\text{H}_2\text{NO}_3\text{HSO}_4$ have been established for different concentrations of the components and a probable mechanism for the chemical processes occurring in the systems

Card 1/2

USSR/Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physico-chemical Analysis. Phase Transitions, B-8

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 373

Abstract: $\text{HNO}_3\text{-H}_2\text{SO}_4\text{-nSO}_3$ ($n < 1$) is given. The results of the investigation do not confirm the assumptions in the literature concerning the existence of the following compounds in the $\text{HNO}_3\text{-H}_2\text{SO}_4\text{-SO}_3$ system: $9\text{H}_2\text{SO}_4\text{-HNO}_3$, $9\text{H}_2\text{SO}_4\text{-2NO}_3$, $3\text{H}_2\text{SO}_4\text{-22HNO}_3$, $3\text{HNO}_3\text{-SO}_3$, $11\text{SO}_3\text{-2N}_2\text{O}_5\text{-9H}_2\text{O}$, $10\text{SO}_3\text{-N}_2\text{O}_5\text{-2H}_2\text{O}$, $5\text{SO}_3\text{-2N}_2\text{O}_5\text{-2H}_2\text{O}$ and others.

Card 2/2

USOL'TSEVA, V.A.

Specific gravity curves of the systems: $\text{HNO}_3 - \text{H}_2\text{SO}_4 \cdot \text{MSO}_3$ with
 $n > 1$.

Zhur.prikl.khim.29 no.2:306-308 P '56. (MIRA 9:6)

1.Ivanovskiy gosudarstvennyy meditsinskiy institut.
(Sulfuric acid) (Nitric acid) (Specific gravity)

SOV/153-58-5-28/28

5(2)

AUTHOR:

Usol'tseva, V. A.

TITLE:

Isothermal Lines of the Specific Weight of the Ternary System:
Nitric Acid - Sulfuric Acid - Sulfur Trioxide (Izotermnaya
diagramma udel'nogo vesa trekhkomponentnoy sistemy: azotnaya
kislota-sernaya kislota-sernyy angidrid)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya
tekhnologiya, 1958, Nr 5, pp 162-163 (USSR)

ABSTRACT:

In the comprehensive publications on the investigation of the
specific weight of mono- and multicomponent systems there are
no data concerning the system mentioned in the title. Its study
offers considerable difficulties. The author has been dealing
with it for many years. The production of single components is
described. The composition of the systems was analytically
checked. The determinations were carried out with freshly pre-
pared individual systems. A chamber with absolutely dry air
was used. The temperature during the determination of the
systems in liquid state was maintained at $20 \pm 0.05^\circ$ by means of
a water thermostat. A pycnometer of a capacity of about 20 ml
was used for the determinations. The maximum error of the de-

Card 1/2

SOV/153-58-5-28/28
Isothermal Lines of the Specific Weight of the Ternary System: Nitric Acid - Sulfuric Acid - Sulfur Trioxide

terminations amounted to 0.0005. Based upon the results an isothermal ternary diagram (Fig p 162) was plotted. By means of this diagram the specific weight of any individual system can be determined at 20° with an accuracy of $\pm 0.005 \text{ g/cm}^3$. There are 1 figure and 8 references, 5 of which are Soviet.

ASSOCIATION: Ivanovskiy gosudarstvennyy meditsinskiy institut, Kafedra neorganicheskoy i analiticheskoy khimii (Ivanovo State Medical Institute, Chair of Inorganic and Analytical Chemistry)

SUBMITTED: January 18, 1958

Card 2/2

USCOMY-DG-61131

USOL'TSEVA, V.A.

Physicochemical analysis of the system nitric acid - sulfuric acid monohydrate. Izv.vys.ucheb.zav.; khim.i khim.tekh. 2 (MIRA 13:8)
no.5:662-664 '59.

1. Ivanovskiy gosudarstvennyy meditsinskiy institut, kafedra
neorganicheskoy i analiticheskoy khimii.
(Nitric acid) (Sulfuric acid)

USOL'TSEVA. V.A.

Refractometric and viscosimetric study of the system nitric acid - sulfuric acid - sulfuric anhydride. *Izv.vys.ucheb.zav.;*
khim.i khim.tekh. 2 no.6:871-875 '59. (MIRA 13:4)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut. Kafedra
neorganicheskoy i analiticheskoy khimii.
(Sulfuric acid) (Nitric acid) (Sulfur trioxide)

USOL'TSEVA, V.A.

Synclinal fold on the electric conductivity diagram for
the system nitric acid - sulfuric acid - sulfuric anhydride.
Zhur.neorg.khim. 5 no.7:1559-1563 J1 '60.
(MIRA 13:7)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut.
Kafedra neorganicheskoy i analiticheskoy khimii.
(Nitric acid) (Sulfuric acid) (Sulfur trioxide)

USOL'TSEVA, V.A.

Phase diagram of the system nitric acid - sulfuric acid -
sulfuric anhydride. Zhur.neorg. khim. 6 no.3:720-726 Mr '61.
(MIRA 14:3)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut, kafedra
neorganicheskoy i analiticheskoy khimii.
(Nitric acid) (Sulfuric acid) (Sulfur trioxide)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.

Systems with liquid crystals. Part 1: Cholesterol compounds.
Izv.vys.uch.zav.; khim.i khim.tekh. 5 no.4:585-588 '62.
(MIRA 15:12)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut i Institut
kristallografi AN SSSR.
(Cholesterol)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.

Systems with liquid crystals. Part 2: Systems
cholesterol - ethyl alcohol and cholesterol - glycerol.
Izv.vys.uch.zav.; khim.i khim.tekh. 5 no.4:589-593 '62.
(MIRA 15:12)

(Cholesterol) (Hexadecanol) (Glycerol)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.; NASYROVA, M.D.; YERSHOVA, L.I.

Systems having the liquid crystalline state. Part 3: Cholesteryl
caprylate and cholesteryl caprylate. Izv.vys.ucheb.zav.;khim. i
khim.tekh. 6 no.2:257-259 '63. (MIRA 16:9)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut i Institut
kristallografii AN SSSR.
(Cholesterol esters) (Octanoic acid)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.; NASYROVA, M.D.

Systems have the liquid crystalline state. Part 4: p,p'-
Nonoxybenzaltoluidine. Izv. vys. ucheb. zav.; khim. i khim.
tekh. 6 no.3:434-436 '63. (MIRA 16:8)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut i Institut
kristallografii AN SSSR.
(Liquid crystals) (Toluidine---Thermal properties)

CHISTYAKOV, I.G.; USOL'TSEVA, V.A.

Systems having the liquid crystalline state. Part 5:
Paraazoxyanisole and paraazoxyphenetole. Izv. vys. ucheb. zav.;
khim. i khim. tekhn. 6 no.3:436-439 '63. (MIRA 16:8)

(Liquid crystals) (Anisole—Thermal properties)
(Phenetole—Thermal properties)

USOL'TSEVA, V.A.; CHISTYAKOV, I.G.

Chemical characteristics, structure, and properties of liquid
crystals. Usp.khim. 32 no.9:1124-1151 S '63. (MIRA 16:9)

1. Ivanovskiy gosudarstvenny, meditsinskiy institut i Institut
kristallografii AN SSSR.

(Liquid crystals)

BR

ACCESSION NR: AT4033560

8/2922/63/009/000/0114/0118

AUTHOR: Usol'tsev, V. A.; Manuylov, K. N.

TITLE: Attainments in the development of a radiosonde for network use and certain prospects in radiosonde work

SOURCE: Vsesoyuzhoye nauchnoye meteorologicheskoye soveshchaniye. 1st, Leningrad, 1961. Priory* i metody* nablyudeniya (Instruments and methods of observation); trudy* soveshchaniya, v. 9. Leningrad, Gidrometeoizdat, 1963, 114-118

TOPIC TAGS: meteorology, meteorological instrument, radiosonde, A-22 radiosonde, aerology, meteorological service

ABSTRACT: The RZ-049 radiosonde has been replaced by the A-22. The latter measures temperature, pressure and humidity with considerably greater accuracy than the RZ-049 and RKZ radiosondes. Although the new instrument is simple, its cost still somewhat exceeds the earlier radiosonde. The A-22-III, the most widely used version of the A-22, is based on use of a special code drum. The mechanism of the instrument consists of independent pressure, temperature and air humidity units, plus the code drum, all mounted on a light frame. Pressure is measured in the range 1050-10 mb, temperature in the range 40 to -75C and relative humidity from

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ACCESSION NR: AT4033560

15 to 100%. These units and the code drum are described briefly, but there are no illustrations. The housed radiosonde, without batteries, weighs less than 600 g. A new modification of the A-22, the A-22-IV, has now been developed and is in production. It has an electric motor which operates at low temperatures; no lubricant is needed on the bearings. The rigidity of the frame has been strengthened without an increase in weight, resulting in an increase in the stability of readings. The pressure unit has been changed considerably. The A-22-III used a pressure unit manufactured of phosphor bronze with a temperature compensator for decreasing temperature errors; the temperature compensator has been removed in the A-22-IV and the pressure unit now is made of a special steel with a very small temperature coefficient. The housing now is smaller and made of white plastic. The radio transmitter and the power source are in separate housings and are attached beneath the instrument. The authors note that the accuracy of radiosonde measurements still is too low. It is important to shorten the time between the end of sounding and the time of arrival of telegrams at prognostic centers; the tediousness of processing radiosonde data must be decreased by use of electronic computers. The ceiling reached by instruments must be increased by development of improved balloons and the instruments themselves must be improved to permit accurate operation at great heights. Orig. art. has: 2 formulas.

Card 2/3

ACCESSION NR: AT4033560

ASSOCIATION: Nauchno-issledovatel'skiy institut gidrometeorologicheskogo priborostroyeniya (Scientific Research Institute of Hydrometeorological Instrumentation)

SUBMITTED: 00

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: ES

NO REF SOV: 000

OTHER: 000

Card 3/3

L 26090-65 ENT(1)/FCC GW

ACCESSION NR: AT5001380

S/2778/64/000/012/0041/0047

AUTHOR: Usol'tsev, V. A.

TITLE: Radiometeorograph

SOURCE: Leningrad. Nauchno-issledovatel'skiy institut gidrometeorologicheskogo priborostroyeniya. Trudy, no. 12, 1964. Voprosy gidrometeorologicheskogo priborostroyeniya (Problems in hydrometeorological instrument manufacture), 41-47

TOPIC TAGS: meteorological instruments, meteorograph, radiometeorograph, meteorological balloon, atmospheric pressure, atmospheric humidity, atmospheric temperature

ABSTRACT: A radiometeorograph is described which was developed for sounding of the atmosphere using a captive balloon. In this instrument, the drum and clock mechanism have been replaced by a coding device and radio transmitter. The received signals are recorded at a ground station and the operator can be informed of changes in meteorological parameters as they occur. The A-46 radiometeorograph consists of a complex of meteorological instruments, the transmitter and a source of electrical current. Signals are received and recorded by the radio receiver of a "Malakhit" radiotheodolite and a PR-4 semiautomatic recorder. The A-46 is

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ACCESSION NR: AT5001380

designed for measurement in the ranges: atmospheric pressure -- 1040 to 750 mb, temperature -- +35 to -15C and relative humidity from 30 to 100%. The meteorological complex is in most ways similar to that of the A-22 radiosonde, consisting of pressure, temperature and humidity sensors, a code drum, an electric motor and fan. The pressure unit, as in the A-22, consists of five aneroid capsules; sensitivity of the unit is from 1.1 to 1.6 mb per track of the code drum and the temperature coefficient does not exceed 0.1 mb per 1C. The temperature sensing element is a bimetallic spring, designed for measurements in a narrower temperature range than in the A-22, and thus ensuring higher sensitivity. The humidity sensor is an animal membrane attached to a ring. Measured values are transmitted in Morse code. The code drum plate has 300 tracks each 0.25 mm wide. The radio transmitter is type A-36, slightly modified. Including the power source, the radiometeorograph weighs 2.8 kg. Measurements of all parameters can be made either during ascent or descent of the balloon. Components of the apparatus are described and a simplified electrical circuit diagram accompanies the text. "The principal assistants to the author in the development of this device were K. N. Manuylov, G. S. Gershenzon, M. K. Fedorova and S. I. Nepomnyashchiy." (Orig. art. has: 4 figures.

Card 2/3

L 26090-65
ACCESSION NR: AT5001380

ASSOCIATION: Nauchno-issledovatel'skiy institut gidrometeorologicheskogo
priborostroyeniya, Leningrad (Hydrometeorological instrument making scientific
research institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES

NO REF SOV: 000

OTHER: 000

Card 3/3

USOL'TSEVA, V.A.; CHISTYAKOV, I.G.; NASIROVA, M.D.

Thermographic and polarizing microscope study of L-ascorbic acid. Izv. vys. ucheb. zav.; khim. i khim. tekhn. 8 no.1:65-68 '65. (MIRA 18:6)

1. Ivanovskiy gosudarstvennyy meditsinskiy institut, kafedra biokhimi i kafedra fiziki.

USOL'TSEVA, Ye. V.

Indications for amputations of fingers in war and peace
time. Khirurgiia, Moskva. no. 10:82-85 Oct. 1950.(CML 20:1)

1. Leningrad.

USOL'TSEVA, Ye.V. (Leningrad)

(Revised)

"Paronychia and its treatment with A.V. Vishnevskii's method." A.N. Ryzhikh.
Reviewed by Ye.V. Usol'tseva. Khirurgia no.2:79-80 F '54. (MLRA 7:5)
(Felon (Disease)) (Ryzhikh, A.N.)

USOL'TSEVA, Ye.V., professor.

Prevention of pyogenic diseases of the hand and fingers.
Khirurgia no.6:40-43 Jo '55. (MLRA 8:10)
(HAND, wounds and inj.
pyogenic, prev.)
(WOUNDS AND INJURIES,
hand, pyogenic, prev.)

USOL'TSEVA, Ye.V.

USOL'TSEVA, Ye.V., professor (Leningrad)

Dermoid cyst of an ungual phalanx. Ortop., travn. i protez. 18 no.2:55
Mr-Ap '57. (MIRA 10:8)

(FINGERS--TUMORS) (CYSTS)

USOL'TSEVA, Ye. V.

USOL'TSEVA, Ye. V.; GOLOVINA, Ye. P.; SHTOL'TSER, V. R.

Effect of heat and cold in the treatment of bruises and strain of
the soft tissues. Sov. med. 21 Supplement:6 '57. (MIRA 11:2)

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fizioterapii i kurortologii.

(HEAT--PHYSIOLOGICAL EFFECT)

(COLD--THERAPEUTIC USE)

(MUSCLES--WOUNDS AND INJURIES)

USOL'TSEVA, Ye.V.. prof. (Leningrad)

Brief review of foreign literature on the treatment of wrist injuries.

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(MIRA 12:3)

(HAND, wds. & inj.

ther., review (Rus))

USOL'TSEVA, Ye.V.; GOLOVINA, Ye.N.

Dermovascular reactions following the local action of heat and cold on intact and bruised tissues; experimental observations.
Vop. kur., fizioter. i lech. fiz. kul't. 24 no. 4:342-346
Jl-Ag '59. (MIRA 13:8)

1. Iz Leningradskego instituta fizioterapii i kurortologii
(dir. - kand. meditsinskikh nauk G.S. Antonov).
(HEAT—PHYSIOLOGICAL EFFECT) (COLD—PHYSIOLOGICAL EFFECT)
(SKIN)

USOL'TSEVA, Ye.V.

Injuries and diseases of the hand. Ortop. travm. i protez. 21
no. 10:3-12 '60. (MIRA 14:1)

(HAND—DISEASES)

USOL'TSEVA, Yelena Vasil'yevna; UDERMAN, Sh.I., red.; KHARASH, G.A.,
tekhn. red.

[Injuries to the hand] Povrezhdeniia kisti. Leningrad, Medgiz,
1961. 269 p. (MIRA 15:4)
(HAND--WOUNDS AND INJURIES)

USOL'TSEVA, Yelena Vasil'yevna

[Bone injuries] Povrezhdeniia kosti. Leningrad, Medgiz, 1961.
269 p. (MIRA 14:11)

(BONES--WOUNDS AND INJURIES)

USOL'TSEVA, Ye.V., prof.

Sequelae following dislocations in the articulations of the
finger and hand. Ortop., travm.i protez. no.7:27-32 '61.
(MIRA 14:8)

(HAND--DISLOCATIONS)

USOL'TSEVA, Ye.V., prof. (Leningrad)

Hand injuries and their treatment. Med.sestra 21 no.7:27-34 J1
'62. (MIRA 15:8)

(HAND--WOUNDS AND INJURIES)

USOL'TSEVA, Ye.V., prof. (Leningrad)

Contusion of the extremities. Sov. Med. 27 no.7:34-38 J1'63.
(MIRA 16:9)

(EXTREMITIES (ANATOMY) —WOUNDS AND INJURIES)

USOL'TSEVA, Ye.V., prof. (Leningrad P-42, Pionerskaya ul., d.45, kv.20)

Progressive diseases of the auxiliary apparatuses of the hand.
Ortop., travm. i protez. 26 no.8:32-37 Ag '65. (MIRA 18:9)

USONYTE, J.

Hemorrhagic vasculitis in children. Sveik. apsaug. no.12:3-8 '62.

1. Vilniaus Valstybinio V. Kapsuko v. universiteto Medicinos fakulteto
infekcinių ir vaikų ligų katedra.
(PURPURA)

USOMYTE, J.

Lesions of the central nervous system in hemorrhagic vasculitis. Sveik. apsaug. 8 no.7:23-26 Jo'63.

1. Vilniaus Valst. V.Kapsuko v. universiteto Medicinos fakultetas.

USONYTE, J.

On abdominal syndrome in hemorrhagic vasculitis. Sveik. apsaug.
8 no. 10:3-7 0'63

1. Vilniaus Valst. V. Kapsuko v. universiteto Medicinos fakultetas.

*

USOROV, P.P.

"What does the Ryazan regional scientific and productional laboratory work at?"

Veterinariya, Vol. 37, No. 7, 1960, p. 26

Director, Ryazan Oblast Sci - Industrial Vet - Lab.

SOV/32-24-12-18/45

7(1)

AUTHORS:

Lopatko, I. F., Usoskin, G. I.

TITLE:

Method for Measuring the Thickness Using the Ultrasonic Impulse-Thickness Gage (Metodika izmereniya tolshchiny s ispol'zovaniyem ul'trazvukovogo impul'snogo tolshchinomera)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 12, pp 1464-1467 (USSR)

ABSTRACT:

The measurement of the thickness of objects which only present one accessible surface for measurement (walls of autoclaves, piping, etc.) is of greatest importance with regard to corrosion and erosion requirements. It was for this purpose that the apparatus mentioned in the title was constructed. This apparatus makes it possible to measure thicknesses of 1 or 2 to 30 mm. The error involved is a maximum of 2% with thicknesses of 2-5 mm, and is 1% maximum with thicknesses of 5-30 mm. The diameter of the piezo vibrators in the apparatus is 13 mm, but this can be reduced to 5-7 mm. A 6Ye5S electron-optical indicator was used. The determination with this apparatus is based upon measuring the time interval between two impulses which are reflected from the opposite surface. Since the

Card 1/2

SOV/32-24-12-19/45

Method for Measuring the Thickness Using the Ultrasonic Impulse Thickness
Gage

velocity of the ultra-sound in the particular medium is known the thickness can be determined from measuring this time interval. A schematic representation of the thickness gage is given together with the experimental arrangement (Figs 1,3) and a measurement diagram (Fig 2) with corresponding appropriate explanations and calculation formulae. There are 4 figures.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova
(Lenina) (Leningrad Electrotechnical Institute imeni V. I.
Ul'yanov (Lenin))

Card 2/2

USOSKIN, I.

Usoskin, I. - "A case of congenital malformation", Sbornik rabot Studench. nauch.
o-va Khar'k. med. in-ta, No. 3, 1949, p. 111-22.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

USSR / Human and Animal Physiology. Internal Secretion, Sex Glands. T

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 70446

Author : Usoskin, I. I.

Inst : Not given

Title : The Exchange of Chorionic Gonadotropin between Mother and Fetus

Orig Pub : Akusherstvo and Ginekologiya, 1957, No. 4, 46-50

Abstract : In normal pregnancy, the blood contains 333-1000 frog units of gonadotropin (G); in multiple-fetus pregnancy, 2000-2500 units; in eclampsia and pre-eclampsia, 5000-33,333 units of G. In the urine in eclampsia, there are 1428-50,000 units of G. In the umbilical blood no G is detectable. The placenta forms G, but the latter does not pass across the placental barrier.

Card 1/1

USOSKIN, I. I. Cand Med Sci -- (diss) "Clinical experimental data on chorionic
gonadotropin [✓] during normal pregnancy and in ~~cases of~~ pregnancy toxemia."
Khar'kov, 1959. 13 pp (Khar'kov Med Inst); 200 copies (KL, 52-59, 148)

-148-

USOSKIN, I.I.

On the problem of the chorionic gonadotropin content of the mother and fetus in toxemias of the second half of pregnancy. Probl.endok. i gorm. 5 no.5:102-108 S-0 '59. (MIRA 13:5)

1. Iz fiziologicheskogo otdela (zav. - dotsent B.A. Vertapetov) Ukrainskogo instituta kseperimental'noy endokrinologii i Khar'kovskogo roditel'nogo doma No.1 (glavnyy vrach V.N. Krasnoshchek). (GONADOTROPINS CHORIONIC metab.) (PREGNANCY TOXEMIAS metab.)

USOSKIN, I.I., kand. med. nauk; ZLATKIS, L.S., kand.med. nauk

Course of pregnancy, labor and puerperium in some organic diseases of the central nervous system. Akush. i gin. 39
no.3:68-72 My-Je'63 (MIRA 17:2)

1. Iz neyroginekologicheskogo i akusherskogo otdeleniya (nachal'nik - kand. med. nauk I.I. Usoskin, nauchnyy rukovoditel' - doktor med. nauk I.Z. Vel'vovskiy) Tsentral'noy psikhonevrologicheskoy i neyrokhirurgicheskoy bol'nitsy Ministerstva putey soobshcheniya (nachal'nik - zasluzhennyy vrach UkrSSR V.M. Yushtin).

USOSKIN, I.I.; BELOUS, I.N.

Use of the ganglionic blocking agent pyrilene in toxicoses during the second half of pregnancy. Trudy Ukr. nauch.-issl. inst. eksper. endok. (MIRA 18:7)
19:418-420 '64.

1. Iz roditel'nogo otdeleniya Tsentral'noy klinicheskoy psikhonevrologicheskoy bol'nitsy Ministerstva puty soobshcheniya SSSR.

USOSKIN, M. M.

Short term credit in the USSR national economy Leningrad, Gosfinizdat, 1948.
77 p. (49-2 374)

HG3729.R0U67

1. Credit - Russia

USOSKIN, M. M.

Organizatsiya I Planirovaniye Kredita v SSSR. (Organization
and Planning of Credit in the USSR) Pod. Red. V. M. Batyreva.
Moskva, Gosfinizdat, 1951. 455 P. Tables.

So: N/5
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BATYREV, V.M.; USOSKIN, M.M.

[Short-term credit and the organization of currency circulation in the
U.S.S.R.] Kratkosrochnyi kredit i organizatsiia denezhnogo obraashcheniia
v SSSR. Moskva, Gosfinizdat, 1952. 171 p. (MLRA 6:10)
(Credit) (Banks and bankin) (Currency question)

USOSKIN, M.

Some problems in the further strengthening of business accounting.
Den. 1 kred. 12 no. 4:10-16 0'54. (MLRA 8:2)
(Industrial management)(Banks and banking)

USOSKIN, M.; SITNIN, V., redaktor; LOGOVINSKAYA, R., redaktor; DENISOVA, O.,
tekhnicheskii redaktor

[Short-term credit in the U.S.S.R.] Kratkosrochnyi kredit v
SSSR. Moskva, Gosfinizdat, 1955. 107 p. (MLRA 9:2)
(Banks and banking) (Russia--Credit)

USOSKIN, M., professor.

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(Credit)

IKONNIKOV, Vladimir Vasil'yevich, prof.; ~~USOSKIN, M.M.~~, prof., otv.
red.; SUBBOTINA, K., red.izd-va; ~~TELEGINA, T.~~, tekhn.red.

[Credit in a socialist society] Kredit v sotsialisticheskom
obshchestve. Moskva, Gosfinizdat, 1959. 87 p. (MIRA 12:11)
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ATLAS, Z.V., prof., red.; USOSKIN, M.M., prof., red.; SHVARTS, G.A.,
dotsent, red.; VOROB'YEV, S.V., kand.ekon.nauk, red.

[Issuing credit to branches of the national economy of the
U.S.S.R.] Voprosy kreditovaniia otraslei narodnogo khoziaistva
SSSR. Moskva, M-vo vysshego obrazovaniia SSSR, 1959. 270 p.
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1. Moscow. Finansovyy institut.
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USOSKIN, M., prof., doktor ekon.nauk

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kand. ekon. nauk, prepod.; VOROB'YEV, S.F., dotsent, prepod.;
MAKAROCHKIN, A.V., dotsent, prepod.; BOROZDIN, B., red.; LEBEDEV, A.,
tekhn. red.

[Collection of problems on the issuing of credit, payments, and cur-
rency circulation] Sbornik zadach po kreditovaniyu, raschetam i dene-
zhnomu obrashcheniyu. Avterskii kollektiv po rukovodstvu M.M.Usos-
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(for Tarasov, Inozemtseva, Vorob'yev, Makarochkin).
(Finance)

SHENGER, Yuriy Yevgen'yevich, doktor ekonom. nauk; USOSKIN, M.M., prof.
otv. red.; BOROZDIN, B., red.; TELEGINA, T., tekhn. red.

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[The organization and planning of credit] Organizatsiia i planiro-
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D'YACHENKO, V.P., glav.red.; BACHURIN, A.V., kand. ekon. nauk, zam. glav. red.; GERASHCHENKO, V.S., kand. ekon. nauk, zam. glav. red.; ALEKSANDROV, A.M., doktor ekon. nauk, prof., red.; KISMAN, N.A., red.; LYUBIMOV, N.N., doktor ekon. nauk, prof., red.; PERESLEGIN, V.I., doktor ekon. nauk, prof., red.; USOSKIN, M.M., doktor ekon. nauk, prof., red.; BREGEL', E.Ya., doktor ekon. nauk, prof., red.; PLESHAKOV, S.Ye., red.; BUTAYOV, N.D., kand. ekon. nauk, red.; PODSHIVALENKO, P.P., red.; CHIZHOV, K.Ya., kand. ekon. nauk, red.; SHESTENEV, M.K., kand. ekon. nauk, red.; DARKOV, G.V., red.

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1. Chlen-korrespondent AN SSSR (for D'yachenko).

USOSKIN, V.

Mechanization of operations in foreign banks. Den. i kred. 14 no.8:
58-62 Ag '56. (MLRA 9:9)
(Banks and banking--Furniture, equipment, etc.)

USOSKIN, V.

Process of increasing concentration of bank capital in the U.S.
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(United States--Banks and banking)

USOSKIN, V.

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by V. Usoskin. Den. 1 krod 15 no.12:43-52 D '57. (MIRA 11:2)
(United States--Finance)
(Perlo, V)

USOSKIN, V.

American banks and distribution of the public debt in the U.S.A.

Den. 1 kred. 17 no.12:68-80 D '59. (MIRA 12:12)

(United States--Banks and banking)

(United States--Debts, Public)

USOSKIN, V.

Holding companies are tools of monopolistic control in the U.S.A.
business. Den. 1 kred 19 no.3:80-87 Mr '61. (MIRA 14:3)
(United States--Holding companies)
(United States--Banks and banking)

USOSKINA, R.Ya., kand. med. nauk (Riga 12, ul. Lenina, d. 138, kv.24-a);
KRUMIN', K.A. [Krumins, K.], kand. med. nauk; ANDREYEVA, Ye.I.,
kand. med. nauk

Polyclinical service for children with diseases and traumas of
the locomotor apparatus in the Latvian S.S.R. Ortop., travm.
i protez. 26 no.11:9-16 N '65. (MIRA 18:12)

1. Iz Rizhskogo instituta travmatologii i ortopedii (direktor -
dotsent V.K. Kalnberz [Kalnberzs, V.]) i otdela lechebno-profi-
lakticheskoy pomoshchi detyam i materyam (nachal'nitsa Ye.I.
Andreyeva) Ministerstva zdravookhraneniya Latviyskoy SSR.

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| 979 | 980 | 981 | 982 | 983 | 984 |
| 985 | 986 | 987 | 988 | 989 | 990 |
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| 997 | 998 | 999 | 1000 | 1001 | 1002 |

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The Influence of Some Factors on the Transformation of the Austenite in High-Speed Steel R and Steel ZKAV8. I. P. Lipilin and A. Usov. (Kachestvennaya Stal, 1938, No. 2, pp. 11-18). (In Russian). Steel R contained carbon 0.70%, chromium 4.34%, tungsten 18.5% and vanadium 0.50%, whilst the composition of steel ZKAV8 was carbon 0.35%, chromium 2.55%, tungsten 7.70% and vanadium 0.37%. Both steels were studied in the as-cast, rough-forged and fine-rolled conditions. The progress of the austenite transformation was studied by Rockwell-C hardness measurements (given in graphical form) and, in a number of cases, by microscopic examination. The effects of the original structure, the temperature of the first heat treatment, the rate of cooling from this temperature to the isothermal-transformation temperature and of plastic deformation at temperatures above the A_c1 point on the decomposition of the supercooled austenite were studied. It was found that the supercooled austenite decomposed more rapidly in the forged and the rolled than in the as-cast specimens, owing to the greater number of carbide fragments present. Raising the temperature to which the steel was originally heated considerably increased the stability of the supercooled austenite owing to dissolution of the carbides and also because of the growth of the austenite grains. Precipitation of carbides during slow cooling from the above temperature lowered the stability of the austenite. Plastic deformation also lowered the stability owing to the breaking-up of the austenite grains and the precipitation of carbide particles which took place during the deformation.

ASB-SLA METALLURGICAL LITERATURE COORDINATION

RYZHOV, I.; MEZHEVIKIN, V., mashinist kombayna; USOV, A., mashinist kombayna.

Using comines in mining steeply inclined coal seams. Mast.ugl.3
no.10:13-14 0 '54. (MIRA 7:12)

1. Nachal'nik uchastka shakhty im. Knyantseva kombinata
Stalinugol'.
(Coal-mining machinery)

USOV, Aleksandr Aleksandrovich; POGODAYEV, Konstantin Il'ich; DERVIZ, G.V.,
professor, redaktor; SENCHILO, K.K., tekhnicheskiy redaktor

[Universal nomographic chart for computation and methods of
determination of reaction of oxidation-reduction potential of
biological liquids] Universal'naya nomogramma dlia vychisleniia
i metody opredeleniia aktivnoi reaktsii i okislitel'no-vosstano-
vitel'nogo potentsiala biologicheskikh zhidkostei. Moskva, Gos.
izd-vo med.lit-ry, 1956. 30 p. (MLRA 10:7)

(BLOOD--ANALYSIS AND CHEMISTRY)
(OXIDATION-REDUCTION REACTION)

PHASE I BOOK EXPLOITATION

SOV/4536

Rybkin, Yevgeniy Aleksandrovich, and Anatoliy Antonovich Usov

Shesterennyye nasosy dlya metallovezhushchikh stankov (Gear Pumps for Metal-Cutting Machine Tools) Moscow, Mashgiz, 1960. 186 p. Errata slip inserted. 7,500 copies printed.

Reviewer: V.V. Yermakov, Candidate of Technical Sciences; Ed. of Publishing House: G.I. Baydakov; Managing Ed. for Literature on Metalworking and Machine-Tool Making (Mashgiz): V.I. Mitin, Engineer; Tech. Ed.: L.P. Gordeyeva.

PURPOSE: This book is intended for engineers engaged in the design and production of machine tools and in metal-cutting machine-tool hydraulics.

COVERAGE: The book contains an analysis of theoretical and experimental investigations of methods for designing and constructing hydraulic gear pumps used in the hydraulic actuation of metal-cutting machine tools. The book is based on recent research carried out by various Soviet and non-Soviet scientists specializing in this field, and on experience gained from the operation of various types of gear pumps. The book contains illustrations and practical suggestions. Chapters III and IV were written by Ye.A. Rybkin. A.A. Usov wrote Chapters I and II, and Sections 1,2, and 7 of Chapter III. The two authors collaborated

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Gear Pumps (Cont.)

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in writing the Introduction and Section 9 of Chapter III. No personalities are mentioned. There are 50 references: 31 Soviet, 15 English, and 4 German.

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Card 2/6

EMINOV, Ye.A.; SINITSYN, V.V.; OSHER, R.N.; CHEKAVTSEV, N.A.; PATSUKOV, I.P.; USOV, A.A.; FUKS, G.I.; VLADZIYEVSKIY, A.P.; AVDEYEV, A.V.; ARZUMANOV, Sh.P.; PETROV, G.G.; KOZOREZOVA, A.A.; LISITSKIY, K.Z.[deceased]; YAKOBI, M.A.; BELYANCHIKOV, G.P.; IVANOV, V.S.; VORONOV, N.M.; RUMYANTSEV, V.A.; TROFIMUK, V.A.; BERSHTADT, Ya.A.; ZILLER, G.K.; BEREZHNYAYA, V.D.; KLEYMENOVA, K.F., ved.red.; TITSKAYA, B.F., ved. red.

[Manual on the use and norms for the expenditure of lubricants]
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[Metallography of nonferrous metals and alloys; with an atlas of macro- and microstructures in supplement] Metallografiya tsvetnykh metallov i splavov: s prilozheniem atlasa makro- i mikrostruktur. Pod obshchey red. M.V.Mal'tseva. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 372 p. (MIRA 13:9)

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Cortical regulation of respiration in aged. Fiziol. zh. SSSR 38
no. 5:576-583 Sept-Oct 1952. (GIML 23:3)

1. Institute of Experimental Medicine, Academy of Medical Sciences
USSR, Leningrad.

USOV, A.G., gornyy inzhener; KRASOVSKIY, L.A., gornyy inzhener.

~~XXXXXXXXXX~~
New developments in design of the iron ore mines in the Urals.
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